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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,296	06/16/2006	Bharat I. Chaudhary	63845 US	2644
109 THE DOW CH	7590 07/02/2007 HEMICAL COMPANY		EXAMINER	
INTELLECTUAL PROPERTY SECTION,			RABAGO, ROBERTO	
P. O. BOX 1967 MIDLAND, MI 48641-1967			ART UNIT	PAPER NUMBER
		•	1713	
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	•		07/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/583,296	CHAUDHARY ET	ΓAL.			
		Examiner	Art Unit				
		Roberto Rábago	1713				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	·						
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		e merits is			
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-12,14-20 and 22 is/are pending in the day Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-12,14-20 and 22 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	vn from consideration.					
	·						
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C	• •			
Priority u	nder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Inform	e(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te				

Application/Control Number: 10/583,296

Art Unit: 1713

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 2, 4-7, 9-12, 14-19 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Bertin et al (US 20030139536).

The reference discloses in Example 10 a composition comprising ethylene copolymer, peroxide, and multifunctional nitroxide, and further extruding the composition to form a branched crosslinked composition having 0% gel content, including all claimed limitations. Regarding suppression of degradation, the reference has not reported any degradation in the presence of the peroxide agent and nitroxide, and therefore the claimed reduction would appear to be inherent. The reference has not measured the torque limits as required in claims 14 and 22; however, this feature would appear to be inherent because a major objective of the reference process is the making of a composition which retains good melt flow at high temperature, and forms

reversible crosslinks as the composition cools [0005] – [0009]. The burden of proof is shifted to applicants to show that the reference composition would not have the claimed unreported properties.

3. Claims 1-5, 8, 9, 15-17, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsumoto et al. (US 4,131,636).

The reference discloses in Examples 1-10 a composition comprising PVC, peroxide, and a multi-unsaturated crosslinking agent to form a branched crosslinked composition having reduced dehydrochlorination [see also col. 2, lines 13-20], including all claimed limitations. The reference has not reported melt processability; however, the claims are entirely unlimited regarding the degree of melt processability and the degree of crosslinking required at the time melt processability is determined. Therefore, even if the final crosslinked composition of the reference is not melt processable, the overall composition would have passed through states of crosslinking wherein both the required crosslinking and the required melt processability would necessarily be present.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 1713

5. Claims 8 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bertin et al (US 20030139536).

The parent claims are discussed with respect to this reference above. The previously cited example has stated that an ethylene copolymer was used, but has not specified which ethylene copolymer. However, selection of an ethylene copolymer or an alternative polymer within the claimed scope would be obvious because the reference has suggested an array of polymers within the claimed scope for use with the disclosed process at [0037] – [0068].

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberto Rábago whose telephone number is (571) 272-1109. The examiner can normally be reached on Monday - Friday from 8:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1713

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Roberto Rábago **Primary Examiner** Art Unit 1713

RR June 19, 2007